Release Schedule

11/12/2008

North/Central Delta Regional Salmon Outmigration Study

10 Now		Study		Day of	Time	NMFS.11.12.08	open	close	Sac Rel	Sac Rel	GS Rel	Ryde Rel	Natural constraints	Sunrise	Sunset
2 11-Nov wed wed wed Night Closure 7-48 a.m. 3:54 p.m. Hydrodynamic transients settling time Smoled? 648 a.m. 4:55 p.m. 6 15-Nov sot 1 Night Closure 7-48 a.m. 3:54 p.m. Hydrodynamic transients settling time Smoled? 648 a.m. 4:55 p.m. 6 15-Nov sot 1 Night Closure 7-48 a.m. 3:54 p.m. 173 113 Smoled? 648 a.m. 4:55 p.m. 6 15-Nov sot 1 Night Closure 7-48 a.m. 3:52 p.m. 173 113 Smoled? 648 a.m. 4:55 p.m. 6 17-Nov sot 1 Night Closure 7-58 a.m. 3:50 p.m. 173 113 Smoled? 6:48 a.m. 4:52 p.m. 6 17-Nov sot 1 Night Closure 7-58 a.m. 3:50 p.m. 173 113 Smoled? 6:58 a.m. 4:52 p.m. 6 17-Nov sot 1 Night Closure 7-58 a.m. 3:49 p.m. 1 120-Nov sot 1 Night Closure 7-58 a.m. 3:49 p.m. 1 Night Closure 7-58 a.m. 3:47 p.m. 1 Night Closure 7-59 a.m. 3:47 p.m. 1 Night Closure 8-00 a.m. 3:46 p.m. 1 Night Closure 7-59 a.m. 3:47 p.m. 1 Night Closure 7-59 a.m. 3:47 p.m. 1 Night Closure 7-59 a.m. 3:47 p.m. 1 Night Closu		. *	Date	Week	Block		(pst)	(pst)	Surv	3D				(pst)	(pst)
3 12-Nov wed Night Closure 7-45 a.m. 3-55 p.m. Full Moon Smolled? 6-45 a.m. 4-55 p.m. 6-15 Nov sat 1 Night Closure 7-46 a.m. 3-55 p.m. 1-7 Night Closure 7-56 a.m. 3-55 p.m. 1-7 Night Closure 7-55 a.m. 3-45 p.m. 3-55 p.m. 2-10-4	_	1	10-Nov	mon	Pilot	1/2 open		7:00 a.m.					Smolted?		
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64 12-Jan m		mon	3	Gate Closed	Hydrodynamic transie	Hydrodynamic transients settling time			
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85	30-Jan	fri	3	Gate Closed		3		1	
86	31-Jan	sat	3	Gate Closed	172	113		2	
87	1-Feb	sun	3	Gate Closed		1		3	
88	2-Feb	mon	3	Gate Closed		2	103	69	
89	3-Feb	tues	3	Gate Closed		3		1	
90	4-Feb	wed	3	Gate Closed		4		2	
91	5-Feb	thur	3	Gate Closed		5		3	
92	6-Feb	fri	3	Gate Closed		6		4	
93	7-Feb	sat	3	Gate Closed		7		5	
94	8-Feb	sun	3	Gate Closed		8		6	
95	9-Feb	mon	3	Gate Closed		9		7	
96	10-Feb	tues	3	Gate Closed		10		8	
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99	13-Feb	fri	3	Gate Closed		13		11	
100	14-Feb	sat	3	Gate Closed		14		12	

Gate operations notes:

Gates take 1/2 hour to reach a steady state - thus to be clear

- (1) Open times represent the initiation of operation (e.g. push the button),
- (2) Closed times indicate end of operation (e.g. gates fully closed)

Notes:

- 1. From November 1 through January 31. Gates will be closed for a total of up to 45 days for fisheries protection.
- 2. From February 1 through May 20. Gates will be closed.
- 3. Fisheries folks (White, Oppenhimer, Green) agreed to "count" nighttime closure as full day closure at 9/22 meeting.
- 4. The majority of the winter run juveniles typically migrate past the vicinity of the DCC gates in late December (Alice Low)
- 5. Minimum elapsed time for a given DCC operation 9 days.
 - This is the Est. time for Sac released fish to "clear" north delta (into Cache SI.) and the Mokelumne system (e.g. San Joaquin) at low Sacramento River flow rates
- 6. A day after each change in DCC gate position is needed for regional scale hydrodynamic transients to settle. (e.g. the system takes some time to reach steady state after the gates are moved.)
- 7. Ryde and Georgiana releases are offset by one day so that these fish are placed in the "same" water as the Sac release (e.g. assume ~1 day travel time from Sac to Walnut Grove)
- (a) SAC rel 3D Study fish are programmed at a higher ping rate for greater spatial resolution in junction experiments (drawback reduced tag life).
- (b) Natural constraints:
 - (1) Smolted? Early in the year fish may not be fully smolted. Furthermore low turbidities, high water temperatures, very low flows may also confound results
 - (2) Hydrology? High flows may force closed operations.
 - (3) "Sweet" sj http://aa.usno.navy.mil/data/docs/RS_OneDay.php (e.g. fish fully smolted, favorable hydrology, turbidities and water temps. AND sac river < 25,000 cfs)